



# Genetics and Genomics of Childhood Infection

## What have we learned from EUCLIDS?


27<sup>th</sup> May 2017

EUCLIDS Open meeting Madrid - ESPID 2017

### Meeting coordinators

Prof. Mike Levin; Imperial College London, United Kingdom  
EUCLIDS Consortium (<http://www.euclids-project.eu/>)



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## Genetics and Genomics of Childhood Infection – What have we learned from the EUCLIDS Project

The European Union genetics of Childhood Infections Study (EUCLIDS) is a five year collaborative project to investigate the genetics and genomics of life-threatening childhood infection funded by the European Union. The study, which included partners in 6 European and one African country, has recruited over 5000 patients with severe infection, and has applied cutting edge genomic methods to understand the genetic and genomic pathways underlying major childhood infections. The meeting, held under the auspices of ESPID, will give attendees an overview of the work conducted during the project, and of major research findings.

The meeting will review progress on the studies to identify the genetic determinants of **susceptibility and severity to life-threatening bacterial infections of childhood** in Europe and globally using meningococcal disease as the prototypic model, and then extending the approach to the other major bacterial infections of childhood.

Time	Topic
09:00	<b>Welcome ( Invite president of ESPID or deputy to Open meeting )</b>
09:15 - 09:45	<b>Overview of EUCLIDS (Mike Levin – Imperial College London coordinator of EUCLIDS)</b>
09:45 - 10:15	<b>Do genetics influence response to vaccines?</b> Prof. Andrew Pollard, Dr. Daniel O'Connor (University of Oxford - UK)
10:15 - 10:45	<b>The role of rare Mendelian variants in susceptibility to bacterial infection - lessons from exome sequencing</b> Dr. Evangelos Bellos, Dr. Vanessa Sancho Shimizu (Imperial College London - UK)
10:45 - 11:15	<b>COFFEE</b>
11:15 - 11:45	<b>What can molecular diagnostics in blood add to diagnosis of febrile children?</b> Dr. Colin Fink, Dr. Elli Pinnock (Micropathology Ltd - UK) and Dr. Jethro Herberg (Imperial College London - UK)
11:45 - 12:15	<b>Factor H and Genetic Susceptibility to meningococcal disease</b> Dr. Sonia Davila, Dr. Vikrant Kumar (GIS – Singapore)
12:15 - 12:45	<b>The role of genetics in severity and outcome of meningococcal disease and other bacterial infections - the GWAS validation studies</b> Prof. Martin Hibberd (LSHTM – UK), Dr. Clive Hoggart (Imperial College London - UK), Dr. Daniela Klobassa (MUG – Austria)
12:45 - 14:00	<b>Lunch Break</b>
14:00– 14:30	<b>Current patterns of life-threatening infection – lessons from EUCLIDS recruitment</b> Dr. Federico Martín-Torres (SERGAS – Spain)
14:30 – 15:00	<b>Case-Study: EUCLIDS in West Africa – Recruitment in the Gambia</b> Dr. Fatou Secka/ Dr Suzanne Anderson (MRC Gambia)
15:00 – 15:30	<b>What has RNA expression profiling taught us about diagnosis and immunopathology of Bacterial infection?</b> Dr. Myrsini Kaforou (Imperial College London – UK)
15:30 – 16:00	<b>COFFEE</b>
16:00 – 16:30	<b>How does Factor H and the Factor H related proteins control bacterial infection?</b> Prof. Taco Kuijpers (AMC - Netherlands), Richard Pouw (AMC - Netherlands), Dr. Michiel van der Flier (RUMC - Netherlands)
16:30 – 17:00	<b>Are Factor H and the FH related proteins important regulators of malaria and bacterial infections in Africa?</b> Dr. Aubrey Cunnington (Imperial College London - UK), Anna van Beek (AMC - Netherlands) Dr. Suzanne Anderson (MRC Gambia)
17:00	<b>Closing Remarks</b>

**Venue Details:**

Hotel ME Madrid Reina Victoria

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